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Adrianus [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

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(74) Agents: SCHOUTEN, Marcus, M. et al.; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

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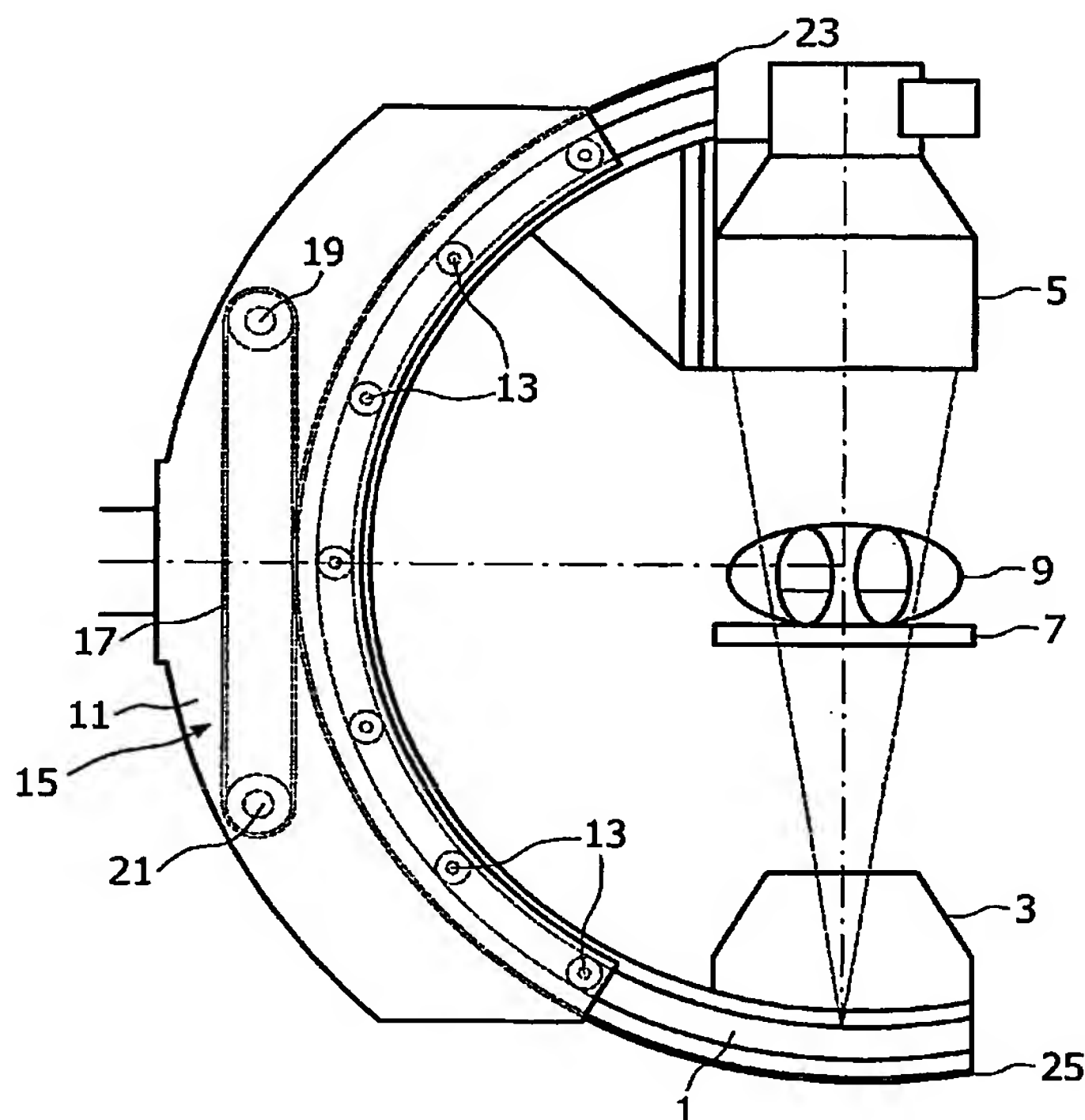
(71) Applicant (*for all designated States except US*): KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): VAN DER ENDE,

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(54) Title: MEDICAL DIAGNOSTIC APPARATUS COMPRISING A DRIVE SYSTEM FOR POSITIONING A RADIATION SOURCE FACING A RADIATION DETECTOR



(57) Abstract: The invention relates to a medical diagnostic apparatus comprising a drive system (15) for positioning a radiation source (3) and a radiation detector (5) facing each other relative to a target (9). The medical diagnostic apparatus comprises a frame (11) and a support (1). Via a central position the support (1) can be rotated relative to the frame (11) between a first and a second extreme position. The drive system comprises a first (19) and a second (21) timing pulley. At least one of the timing pulleys (19, 21) is driven by a drive means (27). Furthermore, the drive system (15) comprises a belt (17) which is connected to the support (1) by two connection points (23, 25). In the central position of the support (1) the belt (17) is guided over and along the first (19) and the second (21) timing pulleys, so that a zigzag configuration of the belt (17) is obtained. Due to the zigzag configuration of the belt (17) at least one of the connection points (23, 25) of the belt can move along its corresponding timing pulley (19, 21) providing a larger angular range than the angular range in similar constructions.



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